

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

Dirk Kempthorne, Governor Toni Hardesty, Director

June 9, 2006

Certified Mail No. 7005 1160 0000 1550 3581

Gary Bremer, President Foam Molders, Inc. 9456 North McGuire Road Post Falls, Idaho 83854

RE:

Facility ID No. 055-00047, Foam Molders, Inc., Post Falls Final Tier II Operating Permit and Permit to Construct

Dear Mr. Bremer:

The Department of Environmental Quality (DEQ) is issuing Tier II Operating Permit and Permit to Construct No. P-060109 to Foam Molders, Inc., in accordance with the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.400 - 470 and 58.01.01.200 - 228, respectively. This permit replaces Tier II Operating Permit and Permit to Construct No. T2-020105, issued December 10, 2002, the terms and conditions of which shall no longer apply.

The enclosed permit is effective immediately and is based on the information contained in your permit application and on the relevant comments received during the public comment period. Modification to and/or renewal of this permit shall be requested in a timely manner in accordance with the Rules for the Control of Air Pollution in Idaho.

A representative of the Coeur d'Alene Regional Office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. In addition to your facility's plant manager, DEQ recommends the following representatives attend the meeting: your responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with the permit conditions.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to IDAPA 58.01.23 (Rules of Administrative Procedure Before the Board of Environmental Quality). A petition may be filed with the Hearings Coordinator, Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, within 35 days of the date of this decision. However, prior to filing a petition for a contested case, DEQ encourages you to contact Bill Rogers at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer Administrator

Air Quality Division

SDB/BR/bf

Permit No. P-060109

Martin Bann

Enclosure

c: Dan Redline, Coeur d'Alene Regional Air Quality Manager Steve Bacom, Permit Writer Bill Rogers, Permit Coordinator Marilyn Seymore/ Pat Rayne, Air Quality Division Source File Permit Binder Phyllis Heitman (Ltr Only) Reading File (Ltr Only)



Air Quality TIER II OPERATING PERMIT and PERMIT TO CONSTRUCT

State of Idaho
Department of Environmental Quality

PERMIT No.: P-060109

FACILITY ID No.: 055-00047

AQCR: 62

CLASS: SM80

SIC: 3086

ZONE: 11

UTM COORDINATE (km): 501.5, 5288.5

1. PERMITTEE

Foam Molders, Inc.

2. PROJECT

Tier II Operating Permit and Permit to Construct Revision

3. MAILING ADDRESS 9456 N. McGuire Road	CITY Post Falls	STATE ID	ZIP 83854
4. FACILITY CONTACT Gary Bremer	TITLE President	TELEPHONE (208)777-8485	
5. RESPONSIBLE OFFICIAL Gary Bremer TITLE President		TELEPHONI (208)777-8485	
6. EXACT PLANT LOCATION 9456 N. McGuire Road, Post Falls, Idaho		COUNTY Kootenai	

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Expanded plastic foams product manufacturing

8. PERMIT AUTHORITY

This permit to construct and Tier II operating permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200-228 and IDAPA 58.01.01.400-470, respectively. This permit pertains only to emissions of air contaminants, which are regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit.

Only the terms and conditions pertaining to Tier II operating permit requirements are subject to the expiration date of this permit.

The permit to construct conditions in this permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented in the application and the Idaho Department of Environmental Quality's (DEQ) technical analysis of the supplied information. Changes in design or equipment that result in any change in the nature or amount of emissions may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 of the Rules for the Control of Air Pollution in Idaho.

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TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY

Date Issued:December 10, 2002Date Modified/Revised:June 9, 2006Date Expires:December 10, 2007

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List of Acronyms, Units, and Chemical Nomenclature

AQCR Air Quality Control Region

CFR Code of Federal Regulations

CO carbon monoxide

DEQ Department of Environmental Quality

dscf dry standard cubic feet

EPA U.S. Environmental Protection Agency

EPS expandable polystyrene

gr grain (1 lb = 7,000 grains)

IDAPA a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho

Administrative Procedures Act

km kilometer

lb/day pound per day

lb/hr pound per hour

lb EPS bead/hr pounds of EPS beads per hour

MMBtu/hr million British thermal units per hour

NO_x nitrogen oxides

PM₁₀ particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers

SIC Standard Industrial Classification

SO₂ sulfur dioxide

T/yr tons per year

UTM Universal Transverse Mercator

VOC volatile organic compound

AIR QUALITY TIER II OPERATING PERMIT AND PERMIT TO CONSTRUCT No.: P-060109					
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	rost rails, idadio		Date Expires:	December 10, 2007	

1. PERMIT SCOPE

Purpose

- 1.1 This permit is a revision of the facility's existing Tier II operating permit and permit to construct. This permit revision removes specific equipment descriptions so as to maintain operational flexibility by allowing for the installation, replacement, and/or removal of the process equipment, while limiting total daily and total annual facility-wide VOC emissions from the facility.
- 1.2 This permit replaces Tier II Operating Permit and Permit to Construct No. T2-020105, issued December 10, 2002, the terms and conditions of which shall no longer apply.

Regulated Sources

1.3 Table 1.1 lists all sources of regulated emissions in this permit.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	Boiler A Manufacturer: Superior Model: 6-750 Rated heat capacity:6.3 MMBtu/hr Burner type: Horizontally fired Stack diameter: 14 inches Stack height: 32 feet Fuel: Natural gas	None
3	Processing equipment	None

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2. FACILITY-WIDE CONDITIONS

Fugitive Emissions

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:
 - Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
 - Application, where practical, of asphalt, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
 - Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose
 and vent the handling of dusty materials. Adequate containment methods should be employed during
 sandblasting or other operations.
 - Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
 - Paving of roadways and their maintenance in a clean condition, where practical.
 - Prompt removal of earth or other stored material from streets, where practical.
- 2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.
- 2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.
- 2.4 The permittee shall conduct a quarterly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.

Odors

2.5 The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

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2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

Visible Emissions

- 2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, NO_x, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.
- The permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

Excess Emissions

2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

Open Burning

2.10 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, Rules for Control of Open Burning.

Air Stagnation Advisory Days

2.11 The permittee shall comply with the Air Pollution Emergency Rule in IDAPA 58.01.01.550-562.

Monitoring and Recordkeeping

2.12 The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or

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methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

Reports and Certifications

Any reporting required by this permit, including but not limited to, records, monitoring data, supporting information, requests for confidential treatment, notifications of intent to test, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:

Air Quality Permit Compliance Department of Environmental Quality Coeur d'Alene Regional Office 2110 Ironwood Parkway Coeur d'Alene, ID 83814 Phone: (208) 769-1422

Fax: (208) 769-1404

Fuel-burning Equipment

2.14 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, or 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid.

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3. PROCESS EQUIPMENT

3.1 Process Description

The EPS raw material (beads) arrives in 1,000-pound boxes. The beads are vacuum fed to the pre-expander where they are partially expanded to their desired density, using steam from a natural gas-fired boiler. Steam is used to heat the beads and to release pentane, which is the encapsulated blowing agent contained within the beads. Expanded beads are aged in the prepuff storage for a period between two to 48 hours, to allow the prepuff to stabilize. The material is then transferred into molds or presses where, using steam, the beads are fused together into desired shapes, based on the mold forms. The molded shapes are then cut to their final size and shape, and stored. Each step of the process results in pentane emissions.

VOC emissions, as pentane, are emitted from the processes and equipment referenced above, the above referenced equipment is hereafter referred to as "process equipment".

3.2 Emission Control Description

There are no emission controls for these processes

Emission Limits

3.3 Emission Limits

- The combined VOC emissions from the process equipment shall not exceed 2,856 lb/day
- The combined VOC emissions from the process equipment shall not exceed 95.2 tons per any consecutive 12-month period.
- 3.3.1 Compliance with Permit Condition 3.3 shall be determined using the equations below and in Permit Condition 3.4:
 - Daily VOC Limit

Daily VOC = Throughput
$$(1b/day)$$
 × % pentane × 0.85

Annual VOC Limit

Annual VOC = Throughput
$$\binom{1b}{12-months}$$
 × average% pentane × 0.85

Operating Requirements

3.4 Throughput Limits

Throughput shall be limited based on the pentane content of the EPS beads and shall be determined using the following equations:

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Maximum Daily Throughput Limit

Daily Throughput (lb/day) =
$$\frac{2,856^{16VOC/day}}{\% pentane \times 0.85}$$

Maximum Annual Throughput Limit

Annual Throughput (lb/12-months) =
$$\frac{95.2 ton \times 2000 \frac{lb}{ton}}{average\% pentane \times 0.85}$$

3.5 Pentane Limit

The permittee shall not expand, or further process, any EPS beads that contain pentane in quantities greater than 7% by weight.

Monitoring and Recordkeeping Requirements

3.6 Monitor Operating Parameters

A compilation of the most recent five years of records shall be kept onsite and shall be available to DEQ representatives upon request. The permittee shall monitor and record the following information:

- The pentane emissions in pounds of VOC per day and pounds of VOC per the most recent 12-month period, using the equations in Permit Condition 3.3.1 and 3.4;
- The actual throughput of beads calculated by Permit Condition 3.4 both daily and annually;
- Documentation for each purchase of EPS beads that shows the percent pentane by weight of the beads.

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SUMMARY OF EMISSION RATE LIMITS

Table 6.1 EMISSION LIMITS

Foam Molders, Inc., Post Falls Emission Limits ^a – Daily (lb/day), and Annual ^b (T/yr)					
Source Description VOC					
Source Description	lb/day	T/yr			
Process Equipment	2,856	95.2			

^{*}As determined by a pollutant-specific EPA reference method, a DEQ-approved alternative, or as determined by DEQ's emissions estimation methods used in this permit analysis.

*As determined by multiplying the actual or allowable (if actual is not available) pound per hour emission rate

by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

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5. PERMIT GENERAL PROVISIONS

- 1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
- 2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
- 3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and
 conditions of this permit, to inspect any monitoring methods required in this permit, and require stack
 compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the
 Director.
- 4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
- 5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211.01 and 211.03:
 - A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of completion/cessation of construction, within five working days after occurrence;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date
- 6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

- 7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- 8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.